

Tanish Rana

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Education

New York University <i>Master of Science in Computer Science (GPA: 4.00/4.00)</i>	Expected May 2027 New York City, New York
Thapar Institute of Engineering and Technology <i>Bachelor of Engineering in Computer Science and Business Systems (GPA: 3.49/4.00)</i>	June 2025 India

Experience

ProcDNA Analytics <i>Business Analyst (Sales Operations) - US Pharmaceutical Consulting</i>	Jan 2025 – July 2025 India
<ul style="list-style-type: none">Owned and delivered 100+ sales operations dashboards and ad-hoc analysis deliverables for a S&P 500 pharmaceutical client, building SQL pipelines to validate data and eliminate recurring integrity issues.Automated Attainment, Contest, and Incentive Compensation reporting workflows and sales-force payout calculations using Excel and VBA, reducing manual effort by 75% and improving operational efficiency.Conceptualized and developed a secure, modular ICD (International Classification of Diseases) Code Governance Platform (Python, SQL, VBA) with audit trails, cutting approval cycles by 50%, enabling self-service analytics, and integrating HCP targeting, activation tracking, and payout validation for a multi-market drug launch; commercialized and sold for \$20K to client.Partnered directly with client stakeholders to define requirements, design scalable analytics tools, and translate data into actionable insights, strengthening alignment, adoption, and long-term trust.	
Weapons and Electronics Systems Engineering Establishment (WESEE), Indian Navy <i>Research Intern</i>	Dec 2023 – Jan 2024 India

Projects

CollabDesk – Collaborative Workspace Platform (Project Owner) <i>React, TypeScript, Django, Python, AWS, Supabase, Auth0, CI/CD</i>	
<ul style="list-style-type: none">Led team of 6 developers in architecting and deploying a full-stack collaborative workspace application using React frontend and Django REST backend, addressing team productivity challenges for remote work environments with 200+ concurrent users.Implemented secure user authentication system integrating Auth0 APIs and AWS services, designing responsive UI components and RESTful endpoints with automated CI/CD pipeline for seamless deployment and real-time collaboration features.Delivered production-ready application with robust security protocols and scalable cloud architecture, achieving 99% uptime and supporting multiple collaborative workflows with optimized performance metrics.	
InfraPilot - Cloud-Native NLP Based DevOps Control Plane <i>AWS, Amazon Lex, DynamoDB, GitHub Actions, Docker, Kubernetes</i>	
<ul style="list-style-type: none">Architected a serverless AWS control plane using Lambda and Amazon Lex to translate natural-language commands into automated CI/CD workflows, reducing deployment time by 60% across QA and production environments.Implemented event-driven orchestration with DynamoDB for state management, integrating GitHub Actions, Docker, and Kubernetes to handle 50+ deployments per week with sub-second rollback capability.Designed fault-tolerant architecture with strict separation of control, execution, and state layers, achieving 99.9% availability while cutting infrastructure costs by 40% compared to traditional CI/CD servers.	
Financial Sentiment Analysis for Stock Market Prediction <i>Python, Pandas, Scikit-learn, Keras, SpaCy, Backtrader</i>	
<ul style="list-style-type: none">Built a sentiment-return dataset by processing 82K+ financial news headlines and stock returns, generating 2,700+ ticker-event pairs through feature engineering and NLP-based text parsing.Developed and backtested sentiment-driven trading models using lexicons, ML classifiers, and LSTM, achieving 93% test accuracy and growing a simulated \$100K portfolio to \$150K (+49%).	

Technical Skills

Programming Languages: Python, C++, Java, R, SQL, TypeScript, Swift
Frameworks & Libraries: React, TensorFlow, Keras, PyTorch, Scikit-learn, Pandas, NumPy, Seaborn, Matplotlib, NLTK, SpaCy, PyQt
Cloud & Tools: AWS, Azure, GCP, Databricks, Git, Excel, CI/CD, Firebase
Concepts & Methodologies: Full-stack Web Development, Data Analytics, Machine Learning, Deep Learning, Data Visualization, Algorithm Design, Software Testing, Project Management, Natural Language Processing (NLP), Large Language Models (LLMs), Database Design & Normalization, API Development, Agile Methodology, Automation